

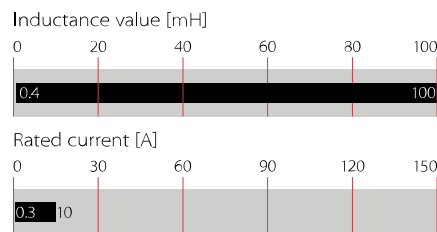
## Current-compensated Chokes



- Rated currents from 0.3 to 10 A
- DC to 400 Hz frequency
- 100 kHz to 3 MHz common-mode resonance frequency
- Dual-choke configurations
- Multiple PCB-mounting options



### Performance indicators



### Technical specifications

|                                                              |                                                                            |
|--------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Operating voltage</b>                                     | 300 VAC                                                                    |
| <b>Operating frequency</b>                                   | DC to 400 Hz                                                               |
| <b>Rated currents</b>                                        | 0.3 to 10 A @ rated ambient temperature                                    |
| <b>Rated inductance</b>                                      | 0.4 to 100 mH                                                              |
| <b>Stray inductance</b>                                      | Typically 1% of $L_N$                                                      |
| <b>Inductance reduction (DC bias with IN)</b>                | Less than 10% (25°C)                                                       |
| <b>High potential test voltage winding-to-winding @ 25°C</b> | 1500 VAC, 60 sec, guaranteed<br>1500 VAC, 2 sec, factory test              |
| <b>winding-to-housing @ 25°C</b>                             | 4000 VAC, 60 sec, guaranteed                                               |
| <b>MTBF @ 40°C/230 V (Mil-HB-217F)</b>                       | >5,000,000 hours                                                           |
| <b>Surge current @ 10 msec</b>                               | 20 x $I_N$ @ 25°C                                                          |
| <b>Temperature range (operation and storage)</b>             | -40°C to 100°C (40/100/56)<br>acc. IEC 60068-1                             |
| <b>Flammability corresponding to</b>                         | Potting compound UL 94V-0<br>Housing UL 94V-0<br>Ringcore coating UL 94V-0 |
| <b>Design corresponding to</b>                               | UL 1283, IEC/EN 60938-1                                                    |

### Approvals & Compliances



RN chokes are attenuating common-mode or asymmetric (P/N → E) interference signals, by being connected in series with the phase and neutral lines of an AC powerline input. Symmetrical components of the noise are also attenuated by the leakage inductance (stray inductance) of the windings. These chokes are typically used in conjunction with suppression capacitors.

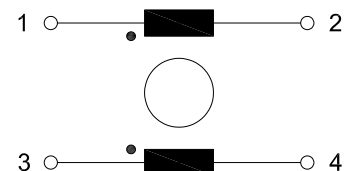
### Features and benefits

- High saturation resistance and excellent thermal behavior
- Through hole pin connections
- Dual-choke configuration
- Small compact design
- Multiple housing options
- Custom-specific versions are available on request
- Higher temperature versions
- Fully potted design usable for ruggedized applications

### Typical applications

- Switch-mode power applications
- Suppressing common-mode interference levels
- EMI input filters
- For suppression-equipment with no earth connection
- Phase-angle control circuits in combination with saturating chokes

### Typical electrical schematic



## Choke selection table

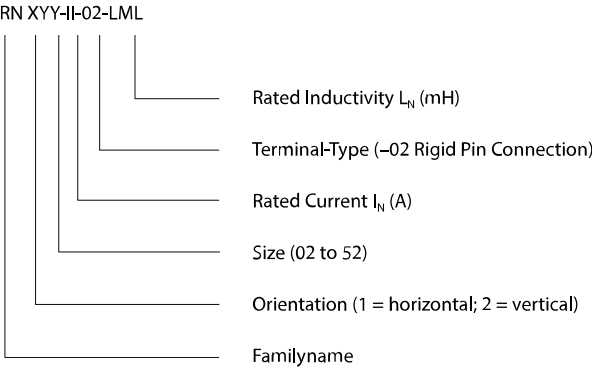
| Choke            | Buy                                                                                 | Current<br>(I <sub>N</sub> )<br>[A] | @ ambient<br>temperature<br>[°C] | Inductance<br>(L <sub>N</sub> )<br>[mH] | Resistance<br>(R <sub>DC</sub> )<br>[mOhm] | A<br>[mm] | B<br>[mm] | H<br>[mm] | Weight<br>(g) |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|-----------------------------------------|--------------------------------------------|-----------|-----------|-----------|---------------|
| RN102-0.3-02-22M |    | 0.3                                 | 40                               | 22.0                                    | 1300                                       | 10.0      | 10.0      | 9.0       | 4             |
| RN102-0.3-02-12M |    | 0.3                                 | 40                               | 12.0                                    | 1100                                       | 10.0      | 10.0      | 9.0       | 3             |
| RN102-0.6-02-4M4 |    | 0.6                                 | 40                               | 4.4                                     | 380                                        | 10.0      | 10.0      | 9.0       | 3             |
| RN102-1-02-3M0   |    | 1.0                                 | 40                               | 3.0                                     | 210                                        | 10.0      | 10.0      | 9.0       | 3             |
| RN102-1.5-02-1M6 |    | 1.5                                 | 40                               | 1.6                                     | 94                                         | 10.0      | 10.0      | 9.0       | 3             |
| RN102-2-02-1M1   |    | 2.0                                 | 40                               | 1.1                                     | 70                                         | 10.0      | 10.0      | 9.0       | 3             |
| RN112-0.4-02-39M |    | 0.4                                 | 40                               | 39.0                                    | 1500                                       | 15.0      | 10.0      | 12.6      | 6             |
| RN112-0.4-02-27M |    | 0.4                                 | 40                               | 27.0                                    | 1400                                       | 15.0      | 10.0      | 12.6      | 6             |
| RN112-0.5-02-27M |    | 0.5                                 | 40                               | 27.0                                    | 1200                                       | 15.0      | 10.0      | 12.6      | 6             |
| RN112-0.5-02-18M |    | 0.5                                 | 40                               | 18.0                                    | 1100                                       | 15.0      | 10.0      | 12.6      | 6             |
| RN112-0.5-02-15M |    | 0.5                                 | 40                               | 15.0                                    | 700                                        | 15.0      | 10.0      | 12.6      | 6             |
| RN112-0.6-02-15M |    | 0.6                                 | 40                               | 15.0                                    | 490                                        | 15.0      | 10.0      | 12.6      | 6             |
| RN112-0.8-02-10M |    | 0.8                                 | 40                               | 10.0                                    | 380                                        | 15.0      | 10.0      | 12.6      | 6             |
| RN112-1.2-02-6M8 |    | 1.2                                 | 40                               | 6.8                                     | 250                                        | 15.0      | 10.0      | 12.6      | 6             |
| RN112-1.5-02-3M3 |    | 1.5                                 | 40                               | 3.3                                     | 102                                        | 15.0      | 10.0      | 12.6      | 6             |
| RN112-2-02-1M8   |    | 2.0                                 | 40                               | 1.8                                     | 74                                         | 15.0      | 10.0      | 12.6      | 6             |
| RN112-2-02-1M0   |    | 2.0                                 | 40                               | 1.0                                     | 70                                         | 15.0      | 10.0      | 12.6      | 6             |
| RN112-2.6-02-0M4 |    | 2.6                                 | 40                               | 0.4                                     | 40                                         | 15.0      | 10.0      | 12.6      | 6             |
| RN112-3.6-02-0M4 |    | 3.6                                 | 40                               | 0.4                                     | 27                                         | 15.0      | 10.0      | 12.6      | 6             |
| RN112-4-02-0M7   |    | 4.0                                 | 40                               | 0.7                                     | 24                                         | 15.0      | 10.0      | 12.6      | 6             |
| RN114-0.3-02-47M |  | 0.3                                 | 40                               | 47.0                                    | 1700                                       | 20.1      | 12.5      | 13.2      | 10            |
| RN114-0.5-02-39M |  | 0.5                                 | 40                               | 39.0                                    | 830                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN114-0.8-02-27M |  | 0.8                                 | 40                               | 27.0                                    | 500                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN114-1-02-15M   |  | 1.0                                 | 40                               | 15.0                                    | 370                                        | 20.1      | 12.5      | 13.2      | 10            |
| RN114-1.2-02-10M |  | 1.2                                 | 40                               | 10.0                                    | 195                                        | 20.1      | 12.5      | 13.2      | 10            |
| RN114-1.5-02-6M8 |  | 1.5                                 | 40                               | 6.8                                     | 123                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN114-2-02-4M2   |  | 2.0                                 | 40                               | 4.2                                     | 100                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN114-2.5-02-3M3 |  | 2.5                                 | 40                               | 3.3                                     | 72                                         | 20.1      | 12.5      | 13.2      | 11            |
| RN114-3-02-2M0   |  | 3.0                                 | 40                               | 2.0                                     | 52                                         | 20.1      | 12.5      | 13.2      | 10            |
| RN114-4-02-1M5   |  | 4.0                                 | 40                               | 1.5                                     | 34                                         | 20.1      | 12.5      | 13.2      | 11            |
| RN116-0.5-02-47M |  | 0.5                                 | 60                               | 47.0                                    | 960                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN116-0.5-02-39M |  | 0.5                                 | 60                               | 39.0                                    | 920                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN116-0.5-02-27M |  | 0.5                                 | 60                               | 27.0                                    | 790                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN116-0.8-02-27M |  | 0.8                                 | 60                               | 27.0                                    | 370                                        | 20.1      | 12.5      | 13.2      | 13            |
| RN116-1-02-15M   |  | 1.0                                 | 60                               | 15.0                                    | 260                                        | 20.1      | 12.5      | 13.2      | 12            |
| RN116-1-02-10M   |  | 1.0                                 | 60                               | 10.0                                    | 210                                        | 20.1      | 12.5      | 13.2      | 11            |
| RN116-1.3-02-6M8 |  | 1.3                                 | 60                               | 6.8                                     | 140                                        | 20.1      | 12.5      | 13.2      | 12            |
| RN116-1.5-02-10M |  | 1.5                                 | 60                               | 10.0                                    | 148                                        | 20.1      | 12.5      | 13.2      | 12            |
| RN116-1.7-02-4M0 |  | 1.7                                 | 60                               | 4.0                                     | 87                                         | 20.1      | 12.5      | 13.2      | 12            |
| RN116-2-02-3M3   |  | 2.0                                 | 60                               | 3.3                                     | 70                                         | 20.1      | 12.5      | 13.2      | 12            |
| RN116-2-02-2M2   |  | 2.0                                 | 60                               | 2.2                                     | 66                                         | 20.1      | 12.5      | 13.2      | 11            |
| RN122-0.5-02-56M |  | 0.5                                 | 40                               | 56.0                                    | 1800                                       | 25.0      | 15.0      | 16.5      | 20            |
| RN122-0.6-02-47M |  | 0.6                                 | 40                               | 47.0                                    | 1300                                       | 25.0      | 15.0      | 16.5      | 20            |
| RN122-0.8-02-39M |  | 0.8                                 | 40                               | 39.0                                    | 1000                                       | 25.0      | 15.0      | 16.5      | 20            |
| RN122-1-02-18M   |  | 1.0                                 | 40                               | 18.0                                    | 630                                        | 25.0      | 15.0      | 16.5      | 19            |
| RN122-1-02-10M   |  | 1.0                                 | 40                               | 10.0                                    | 560                                        | 25.0      | 15.0      | 16.5      | 19            |
| RN122-1.5-02-10M |  | 1.5                                 | 40                               | 10.0                                    | 250                                        | 25.0      | 15.0      | 16.5      | 20            |
| RN122-2-02-6M8   |  | 2.0                                 | 40                               | 6.8                                     | 156                                        | 25.0      | 15.0      | 16.5      | 20            |
| RN122-2-02-5M0   |  | 2.0                                 | 40                               | 5.0                                     | 140                                        | 25.0      | 15.0      | 16.5      | 21            |
| RN122-2.5-02-5M6 |  | 2.5                                 | 40                               | 5.6                                     | 110                                        | 25.0      | 15.0      | 16.5      | 20            |
| RN122-3-02-4M5   |  | 3.0                                 | 40                               | 4.5                                     | 80                                         | 25.0      | 15.0      | 16.5      | 21            |
| RN122-4-02-3M3   |  | 4.0                                 | 40                               | 3.3                                     | 46                                         | 25.0      | 15.0      | 16.5      | 22            |
| RN122-4-02-1M8   |  | 4.0                                 | 40                               | 1.8                                     | 42                                         | 25.0      | 15.0      | 16.5      | 22            |

| Choke             | Buy                                                                                 | Current<br>(I <sub>N</sub> )<br>[A] | @ ambient<br>temperature<br>[°C] | Inductance<br>(L <sub>N</sub> )<br>[mH] | Resistance<br>(R <sub>DC</sub> )<br>[mOhm] | A<br>[mm] | B<br>[mm] | H<br>[mm] | Weight<br>(g) |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|-----------------------------------------|--------------------------------------------|-----------|-----------|-----------|---------------|
| RN142-0.5-02-82M  |    | 0.5                                 | 40                               | 82.0                                    | 2700                                       | 30.0      | 20.0      | 19.7      | 36            |
| RN142-1-02-33M    |    | 1.0                                 | 40                               | 33.0                                    | 810                                        | 30.0      | 20.0      | 19.7      | 37            |
| RN142-1.4-02-27M  |    | 1.4                                 | 40                               | 27.0                                    | 500                                        | 30.0      | 20.0      | 19.7      | 40            |
| RN142-2-02-6M8    |    | 2.0                                 | 40                               | 6.8                                     | 192                                        | 30.0      | 20.0      | 19.7      | 36            |
| RN142-4-02-3M3    |    | 4.0                                 | 40                               | 3.3                                     | 67                                         | 30.0      | 20.0      | 19.7      | 38            |
| RN142-6-02-1M8    |    | 6.0                                 | 40                               | 1.8                                     | 20                                         | 30.0      | 20.0      | 19.7      | 40            |
|                   |                                                                                     |                                     |                                  |                                         |                                            |           |           |           |               |
| RN143-0.5-02-100M |    | 0.5                                 | 40                               | 100.0                                   | 2900                                       | 30.0      | 20.0      | 19.7      | 36            |
| RN143-1-02-47M    |    | 1.0                                 | 40                               | 47.0                                    | 890                                        | 30.0      | 20.0      | 19.7      | 38            |
| RN143-2-02-10M    |    | 2.0                                 | 40                               | 10.0                                    | 240                                        | 30.0      | 20.0      | 19.7      | 42            |
| RN143-4-02-3M9    |    | 4.0                                 | 40                               | 3.9                                     | 59                                         | 30.0      | 20.0      | 19.7      | 39            |
| RN143-6-02-1M8    |    | 6.0                                 | 40                               | 1.8                                     | 20                                         | 30.0      | 20.0      | 19.7      | 42            |
|                   |                                                                                     |                                     |                                  |                                         |                                            |           |           |           |               |
| RN152-1-02-68M    |    | 1.0                                 | 40                               | 68.0                                    | 1300                                       | 40.0      | 15.0      | 25.0      | 75            |
| RN152-2-02-18M    |    | 2.0                                 | 40                               | 18.0                                    | 350                                        | 40.0      | 15.0      | 25.0      | 64            |
| RN152-4-02-6M8    |    | 4.0                                 | 40                               | 6.8                                     | 87                                         | 40.0      | 15.0      | 25.0      | 74            |
| RN152-6-02-3M9    |    | 6.0                                 | 40                               | 3.9                                     | 42                                         | 40.0      | 15.0      | 25.0      | 68            |
| RN152-8-02-2M7    |    | 8.0                                 | 40                               | 2.7                                     | 22                                         | 40.0      | 15.0      | 25.0      | 73            |
| RN152-10-02-1M8   |    | 10.0                                | 40                               | 1.8                                     | 14                                         | 40.0      | 15.0      | 25.0      | 73            |
|                   |                                                                                     |                                     |                                  |                                         |                                            |           |           |           |               |
| RN202-0.3-02-22M  |    | 0.3                                 | 40                               | 22.0                                    | 1300                                       | 5.1       | 15.2      | 13.5      | 4             |
| RN202-0.3-02-12M  |    | 0.3                                 | 40                               | 12.0                                    | 1100                                       | 5.1       | 15.2      | 13.5      | 4             |
| RN202-0.6-02-4M4  |   | 0.6                                 | 40                               | 4.4                                     | 380                                        | 5.1       | 15.2      | 13.5      | 4             |
| RN202-1-02-3M0    |  | 1.0                                 | 40                               | 3.0                                     | 210                                        | 5.1       | 15.2      | 13.5      | 4             |
| RN202-1.5-02-1M6  |  | 1.5                                 | 40                               | 1.6                                     | 94                                         | 5.1       | 15.2      | 13.5      | 4             |
| RN202-2-02-1M1    |  | 2.0                                 | 40                               | 1.1                                     | 70                                         | 5.1       | 15.2      | 13.5      | 4             |
|                   |                                                                                     |                                     |                                  |                                         |                                            |           |           |           |               |
| RN204-0.3-02-22M  |  | 0.3                                 | 40                               | 22.0                                    | 1300                                       | 7.6       | 10.0      | 14.3      | 3             |
| RN204-0.3-02-12M  |  | 0.3                                 | 40                               | 12.0                                    | 960                                        | 7.6       | 10.0      | 14.3      | 3             |
| RN204-0.6-02-4M4  |  | 0.6                                 | 40                               | 4.4                                     | 350                                        | 7.6       | 10.0      | 14.3      | 3             |
| RN204-1-02-3M0    |  | 1.0                                 | 40                               | 3.0                                     | 192                                        | 7.6       | 10.0      | 14.3      | 3             |
| RN204-1.5-02-1M6  |  | 1.5                                 | 40                               | 1.6                                     | 96                                         | 7.6       | 10.0      | 14.3      | 3             |
| RN204-2-02-1M1    |  | 2.0                                 | 40                               | 1.1                                     | 57                                         | 7.6       | 10.0      | 14.3      | 3             |
|                   |                                                                                     |                                     |                                  |                                         |                                            |           |           |           |               |
| RN212-0.4-02-39M  |  | 0.4                                 | 40                               | 39.0                                    | 1500                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN212-0.4-02-27M  |  | 0.4                                 | 40                               | 27.0                                    | 1400                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN212-0.5-02-27M  |  | 0.5                                 | 40                               | 27.0                                    | 1200                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN212-0.5-02-18M  |  | 0.5                                 | 40                               | 18.0                                    | 1100                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN212-0.5-02-15M  |  | 0.5                                 | 40                               | 15.0                                    | 700                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN212-0.6-02-15M  |  | 0.6                                 | 40                               | 15.0                                    | 490                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN212-0.8-02-10M  |  | 0.8                                 | 40                               | 10.0                                    | 380                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN212-1.2-02-6M8  |  | 1.2                                 | 40                               | 6.8                                     | 250                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN212-1.5-02-3M3  |  | 1.5                                 | 40                               | 3.3                                     | 102                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN212-2-02-1M8    |  | 2.0                                 | 40                               | 1.8                                     | 74                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN212-2-02-1M0    |  | 2.0                                 | 40                               | 1.0                                     | 70                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN212-2.6-02-0M4  |  | 2.6                                 | 40                               | 0.4                                     | 40                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN212-3.6-02-0M4  |  | 3.6                                 | 40                               | 0.4                                     | 27                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN212-4-02-0M7    |  | 4.0                                 | 40                               | 0.7                                     | 24                                         | 10.0      | 15.0      | 20.0      | 8             |
|                   |                                                                                     |                                     |                                  |                                         |                                            |           |           |           |               |
| RN214-0.3-02-47M  |  | 0.3                                 | 40                               | 47.0                                    | 1700                                       | 12.5      | 10.0      | 25.0      | 14            |
| RN214-0.5-02-56M  |  | 0.5                                 | 40                               | 56.0                                    | 1700                                       | 12.5      | 10.0      | 25.0      | 15            |
| RN214-0.5-02-39M  |  | 0.5                                 | 40                               | 39.0                                    | 830                                        | 12.5      | 10.0      | 25.0      | 14            |
| RN214-0.8-02-27M  |  | 0.8                                 | 40                               | 27.0                                    | 500                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN214-1-02-15M    |  | 1.0                                 | 40                               | 15.0                                    | 370                                        | 12.5      | 10.0      | 25.0      | 14            |
| RN214-1.2-02-10M  |  | 1.2                                 | 40                               | 10.0                                    | 195                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN214-1.5-02-6M8  |  | 1.5                                 | 40                               | 6.8                                     | 123                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN214-2-02-4M2    |  | 2.0                                 | 40                               | 4.2                                     | 100                                        | 12.5      | 10.0      | 25.0      | 14            |

| Choke             | Buy                                                                                 | Current<br>(I <sub>N</sub> )<br>[A] | @ ambient<br>temperature<br>[°C] | Inductance<br>(L <sub>N</sub> )<br>[mH] | Resistance<br>(R <sub>DC</sub> )<br>[mOhm] | A<br>[mm] | B<br>[mm] | H<br>[mm] | Weight<br>(g) |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|-----------------------------------------|--------------------------------------------|-----------|-----------|-----------|---------------|
| RN214-2-02-2M2    |    | 2.0                                 | 40                               | 2.2                                     | 67                                         | 12.5      | 10.0      | 25.0      | 14            |
| RN214-2.5-02-3M3  |    | 2.5                                 | 40                               | 3.3                                     | 72                                         | 12.5      | 10.0      | 25.0      | 15            |
| RN214-3-02-2M0    |    | 3.0                                 | 40                               | 2.0                                     | 52                                         | 12.5      | 10.0      | 25.0      | 14            |
| RN214-4-02-1M5    |    | 4.0                                 | 40                               | 1.5                                     | 34                                         | 12.5      | 10.0      | 25.0      | 15            |
| RN216-0.5-02-47M  |    | 0.5                                 | 60                               | 47.0                                    | 960                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN216-0.5-02-39M  |    | 0.5                                 | 60                               | 39.0                                    | 920                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN216-0.5-02-27M  |    | 0.5                                 | 60                               | 27.0                                    | 790                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN216-0.8-02-27M  |    | 0.8                                 | 60                               | 27.0                                    | 370                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN216-1-02-15M    |    | 1.0                                 | 60                               | 15.0                                    | 260                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN216-1-02-10M    |    | 1.0                                 | 60                               | 10.0                                    | 210                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN216-1.3-02-6M8  |    | 1.3                                 | 60                               | 6.8                                     | 140                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN216-1.5-02-10M  |    | 1.5                                 | 60                               | 10.0                                    | 148                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN216-1.7-02-4M0  |    | 1.7                                 | 60                               | 4.0                                     | 87                                         | 12.5      | 10.0      | 25.0      | 16            |
| RN216-2-02-3M3    |    | 2.0                                 | 60                               | 3.3                                     | 70                                         | 12.5      | 10.0      | 25.0      | 16            |
| RN216-2-02-2M2    |    | 2.0                                 | 60                               | 2.2                                     | 66                                         | 12.5      | 10.0      | 25.0      | 15            |
| RN218-0.4-02-100M |    | 0.4                                 | 40                               | 100                                     | 2800                                       | 10.0      | 12.5      | 20.0      | 8             |
| RN218-0.6-02-47M  |    | 0.6                                 | 40                               | 47.0                                    | 1200                                       | 10.0      | 12.5      | 20.0      | 8             |
| RN218-0.7-02-39M  |    | 0.7                                 | 40                               | 39.0                                    | 1150                                       | 10.0      | 12.5      | 20.0      | 8             |
| RN218-0.9-02-27M  |    | 0.9                                 | 40                               | 27.0                                    | 620                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN218-1-02-22M    |    | 1.0                                 | 40                               | 22.0                                    | 520                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN218-1.1-02-15M  |   | 1.1                                 | 40                               | 15.0                                    | 420                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN218-1.4-02-10M  |  | 1.4                                 | 40                               | 10.0                                    | 330                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN218-1.7-02-6M8  |  | 1.7                                 | 40                               | 6.8                                     | 180                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN218-2.2-02-3M3  |  | 2.2                                 | 40                               | 3.3                                     | 100                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN222-0.5-02-56M  |  | 0.5                                 | 40                               | 56.0                                    | 1800                                       | 15.0      | 12.5      | 29.3      | 27            |
| RN222-0.6-02-47M  |  | 0.6                                 | 40                               | 47.0                                    | 1300                                       | 15.0      | 12.5      | 29.3      | 26            |
| RN222-0.8-02-39M  |  | 0.8                                 | 40                               | 39.0                                    | 1000                                       | 15.0      | 12.5      | 29.3      | 27            |
| RN222-1-02-33M    |  | 1.0                                 | 40                               | 33.0                                    | 1300                                       | 15.0      | 12.5      | 29.3      | 29            |
| RN222-1-02-18M    |  | 1.0                                 | 40                               | 18.0                                    | 630                                        | 15.0      | 12.5      | 29.3      | 26            |
| RN222-1.5-02-10M  |  | 1.5                                 | 40                               | 10.0                                    | 250                                        | 15.0      | 12.5      | 29.3      | 26            |
| RN222-2-02-6M8    |  | 2.0                                 | 40                               | 6.8                                     | 156                                        | 15.0      | 12.5      | 29.3      | 28            |
| RN222-2.5-02-5M6  |  | 2.5                                 | 40                               | 5.6                                     | 110                                        | 15.0      | 12.5      | 29.3      | 27            |
| RN222-3-02-4M5    |  | 3.0                                 | 40                               | 4.5                                     | 80                                         | 15.0      | 12.5      | 29.3      | 28            |
| RN222-4-02-3M3    |  | 4.0                                 | 40                               | 3.3                                     | 46                                         | 15.0      | 12.5      | 29.3      | 28            |
| RN232-0.6-02-47M  |  | 0.6                                 | 40                               | 47.0                                    | 1300                                       | 15.0      | 12.5      | 34.3      | 37            |
| RN232-1-02-18M    |  | 1.0                                 | 40                               | 18.0                                    | 390                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN232-1.6-02-10M  |  | 1.6                                 | 40                               | 10.0                                    | 170                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN232-2.5-02-5M6  |  | 2.5                                 | 40                               | 5.6                                     | 86                                         | 15.0      | 12.5      | 34.3      | 38            |
| RN232-4-02-3M3    |  | 4.0                                 | 40                               | 3.3                                     | 54                                         | 15.0      | 12.5      | 34.3      | 38            |
| RN242-0.5-02-82M  |  | 0.5                                 | 40                               | 82.0                                    | 2700                                       | 15.0      | 12.5      | 34.3      | 37            |
| RN242-1-02-33M    |  | 1.0                                 | 40                               | 33.0                                    | 810                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN242-1.4-02-27M  |  | 1.4                                 | 40                               | 27.0                                    | 500                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN242-2-02-6M8    |  | 2.0                                 | 40                               | 6.8                                     | 192                                        | 15.0      | 12.5      | 34.3      | 37            |
| RN242-4-02-3M3    |  | 4.0                                 | 40                               | 3.3                                     | 67                                         | 15.0      | 12.5      | 34.3      | 38            |
| RN242-6-02-1M8    |  | 6.0                                 | 40                               | 1.8                                     | 20                                         | 15.0      | 12.5      | 34.3      | 41            |

Test conditions: Measuring frequency: 10 kHz; 50 mV; Inductance tolerance: +50%, -30%; Resistance tolerance: ±15% @ 25°C; Electrical characteristics @ 25°C: ±2°C;  
 Stray Inductance measurement between pin 1 and 2 (pin 3 and 4 shorted)  
 For mechanical tolerances refer to mechanical data section.

Product selector



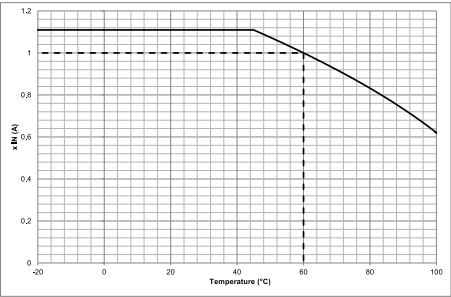
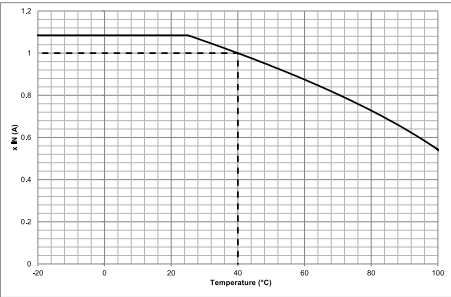
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Thermal Derating

If higher ambient temperatures than the specified apply, the nominal current needs to be reduced according to the graph below. Graph on the left side applies to RN with rated ambient temperature of 40 °C, right side for rated ambient temperature of 60 °C.

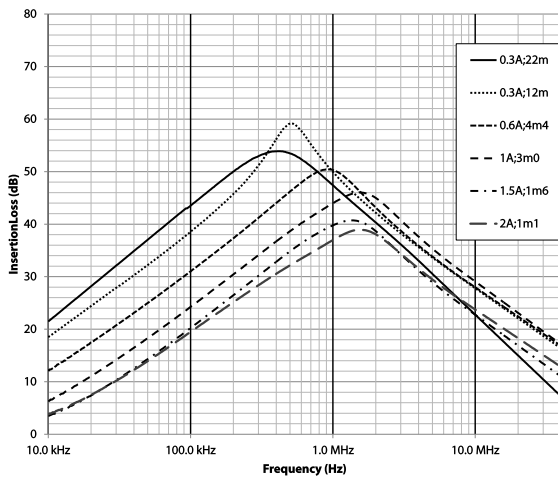


## Typical attenuation/resonance frequency characteristics

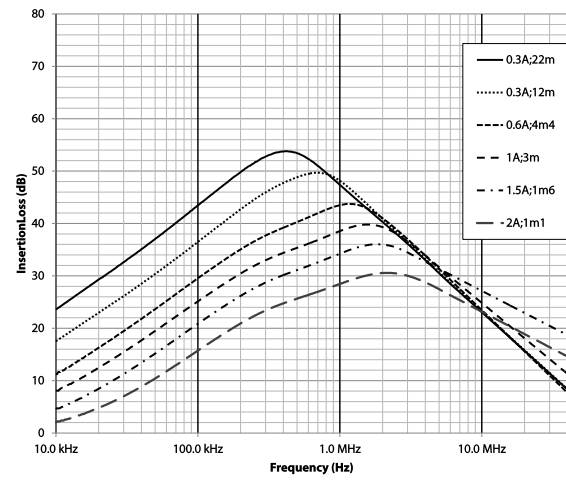
Per CISPR 17; 50  $\Omega$ /50  $\Omega$  asym

X can be exchanged with either 1 or 2 for different housing configuration, attenuation is similar

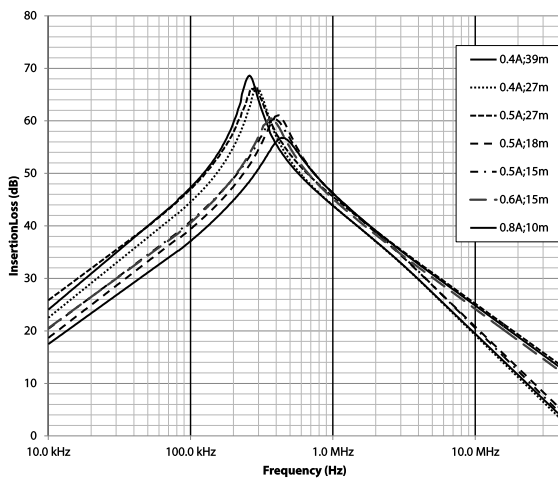
RN 102, RN 202



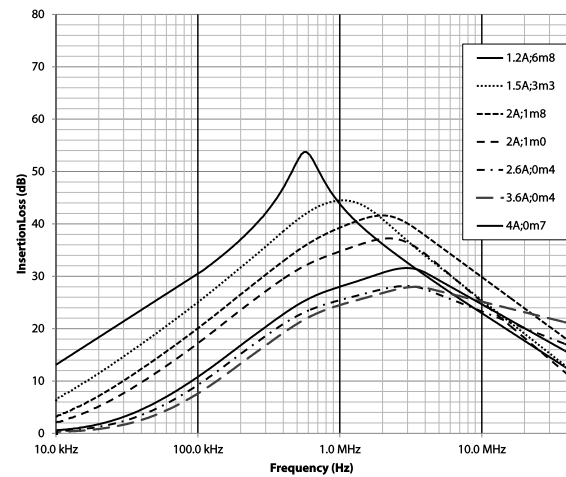
RN 204



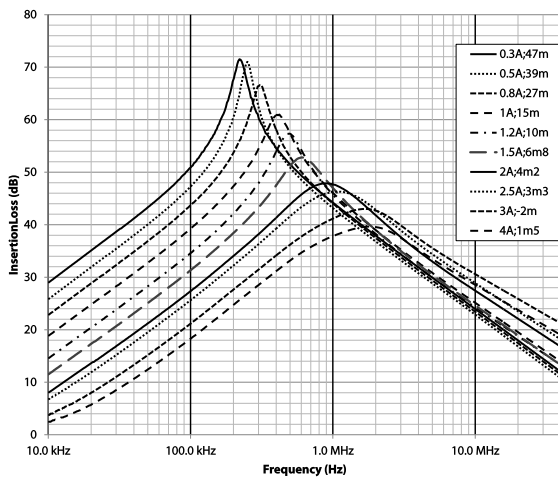
RN 112, RN 212 (<1 A)



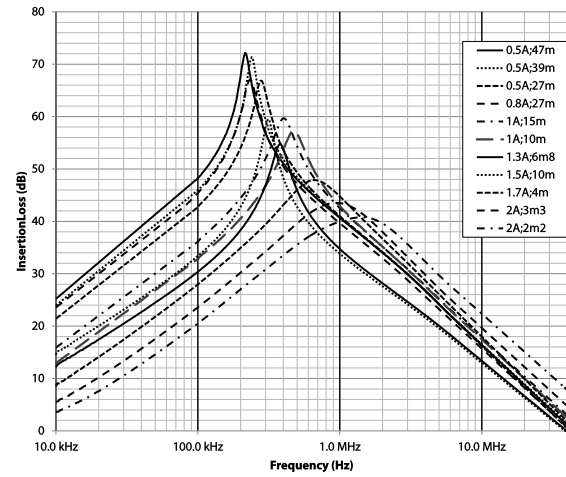
RN 112, RN 212 (>1 A)



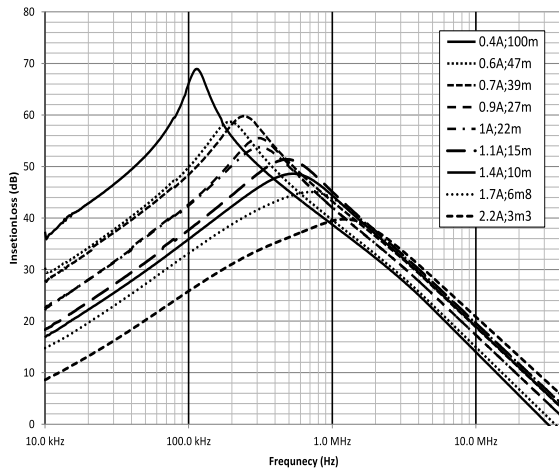
RN 114, RN 214



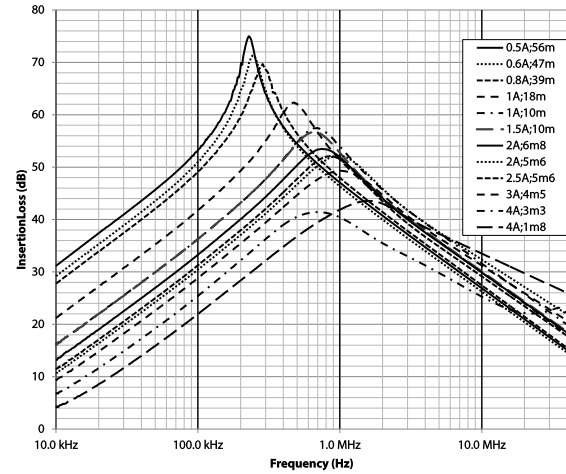
RN 116, RN 216



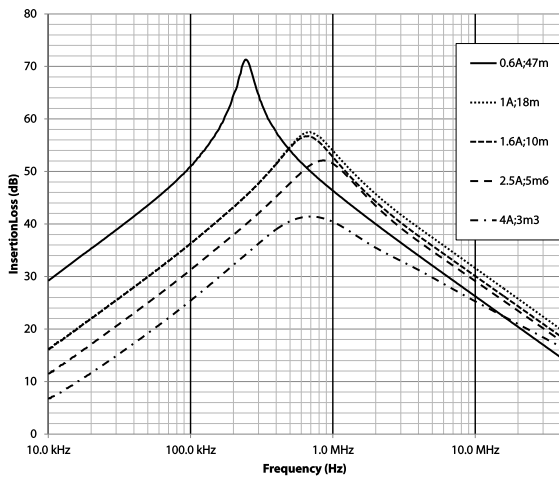
RN 218



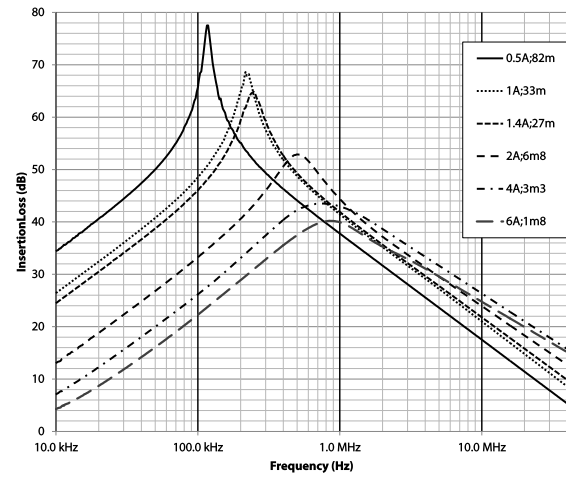
RN 122, RN 222



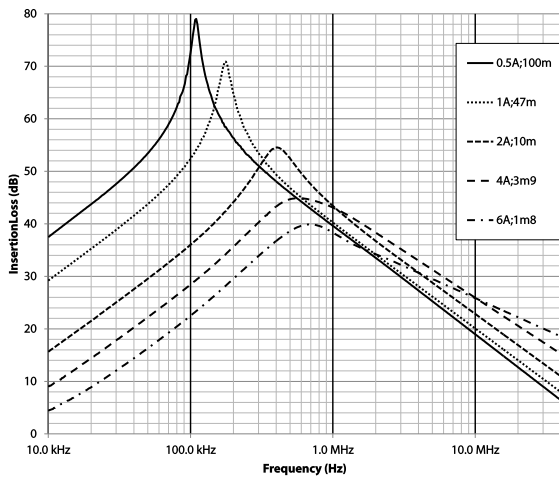
RN 232



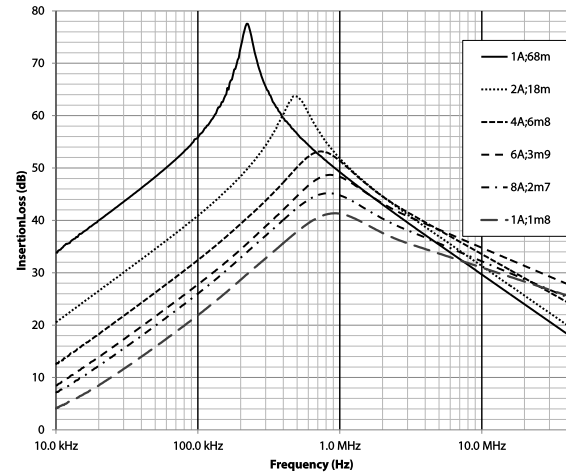
RN 142, RN 242



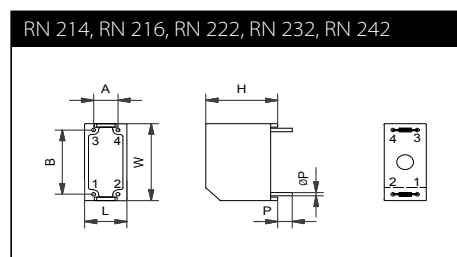
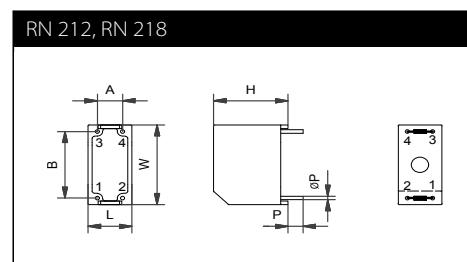
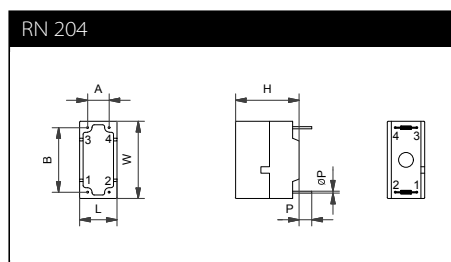
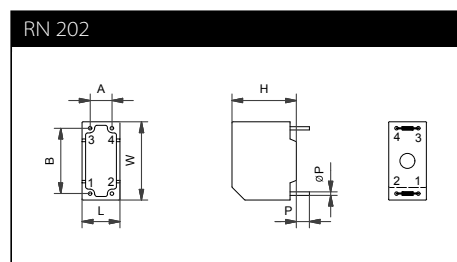
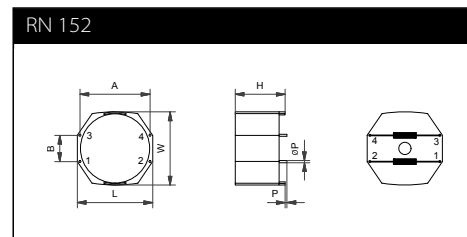
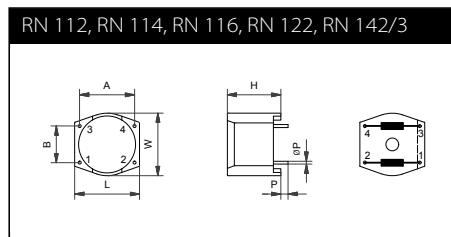
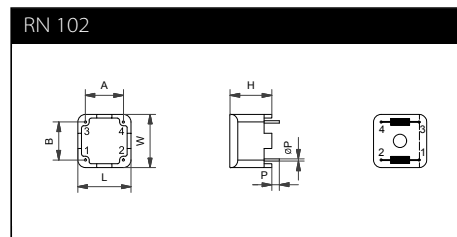
RN 143



RN 152



## Mechanical data



Pin material: Steel (base), Cu (under plating), Sn (final plating 6µm)

## Dimensions

|               | <b>A</b><br>(±0.6 mm) | <b>B</b><br>(±0.6 mm) | <b>H</b><br>(±0.3 mm) | <b>L</b><br>(±0.3 mm) | <b>W</b><br>(±0.3 mm) | <b>P</b><br>(±0.5 mm) | <b>ØP</b><br>(±0.1 mm) |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| <b>RN 102</b> | 10.0 mm               | 10.0 mm               | 9.0 mm                | 14.0 mm               | 14.0 mm               | 4.0 mm                | 0.6 mm                 |
| <b>RN 112</b> | 15.0 mm               | 10.0 mm               | 12.6 mm               | 17.7 mm               | 17.1 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 114</b> | 20.1 mm               | 12.5 mm               | 13.2 mm               | 22.5 mm               | 21.5 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 116</b> | 20.1 mm               | 12.5 mm               | 13.2 mm               | 22.5 mm               | 21.5 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 122</b> | 25.0 mm               | 15.0 mm               | 16.5 mm               | 28.0 mm               | 27.0 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 142</b> | 30.0 mm               | 20.0 mm               | 19.7 mm               | 33.1 mm               | 32.5 mm               | 4.3 mm                | 0.8 mm                 |
| <b>RN 143</b> | 30.0 mm               | 20.0 mm               | 19.7 mm               | 33.1 mm               | 32.5 mm               | 4.3 mm                | 0.8 mm                 |
| <b>RN 152</b> | 40.0 mm               | 15.0 mm               | 25.0 mm               | 43.0 mm               | 41.8 mm               | 4.5 mm                | 1.2 mm                 |
| <b>RN 202</b> | 5.1 mm                | 15.2 mm               | 13.5 mm               | 8.8 mm                | 18.2 mm               | 4.5 mm                | 0.8 mm                 |
| <b>RN 204</b> | 7.6 mm                | 10.0 mm               | 14.3 mm               | 9.0 mm                | 14.0 mm               | 4.0 mm                | 0.5 mm                 |
| <b>RN 212</b> | 10.0 mm               | 15.0 mm               | 20.0 mm               | 12.5 mm               | 18.0 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 214</b> | 12.5 mm               | 10.0 mm               | 25.0 mm               | 15.5 mm               | 23.0 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 216</b> | 12.5 mm               | 10.0 mm               | 25.0 mm               | 15.5 mm               | 23.0 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 218</b> | 10.0 mm               | 12.5 mm               | 20.0 mm               | 12.5 mm               | 18.0 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 222</b> | 15.0 mm               | 12.5 mm               | 29.3 mm               | 18.0 mm               | 31.0 mm               | 4.0 mm                | 0.8 mm                 |
| <b>RN 232</b> | 15.0 mm               | 12.5 mm               | 34.3 mm               | 18.0 mm               | 31.0 mm               | 4.2 mm                | 0.8 mm                 |
| <b>RN 242</b> | 15.0 mm               | 12.5 mm               | 34.3 mm               | 18.0 mm               | 31.0 mm               | 4.2 mm                | 0.8 mm                 |

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